

Heat Illness Prevention 2010 Employer Training

Training Goals

 Increase awareness and commitment to safety and health at the work site.

 Review heat illness prevention and regulatory requirements.

Don't Take the Risk

Heat kills... your business!

- 16 jobsites were shut down in 2009 for imminent hazards due to heat
- Nearly \$ 2 million in penalties and 1158 citations issued in 2009
- District Attorneys may review these cases for criminal activity
- Bad press/media attention
- 41 confirmed heat illnesses and 1 confirmed heat fatality in 2009

Title 8 Section 3395 Heat Illness Prevention Elements Include:

- Access to Water
- Access to Shade
- Written Procedures Including Emergency Response
- Training

Access to Water:

Access to sufficient amounts of cool potable drinking water shall be available at all times, with at least one quart per employee per hour for the entire shift.

Provided at no cost to the workers.



Effective Replenishment Procedures

 Designate a person(s) to periodically check the level of the water containers.

 Specify how often the containers will be checked.

 Ensure that the water is suitably cool.



Encourage the Frequent Drinking of Water!







Remind workers not to wait until they are thirsty!

When There is No Access to Shade



SERIOUS HAZARD: When the outdoor temperature in the work area exceed 85 degrees F, and no shade is present. YOU RISK A SERIOUS CITATION!

IMMINENT HAZARD: When the outdoor temperature in the work area exceed 90 degrees F, and no shade is present. YOU RISK GETTING SHUT DOWN (OPU)!

Access to Shade







Locate the shade structure as close as practicable to the areas where employees are working.

Have and maintain one or more areas with shade. Permit access to shade at all times.

Encourage Employees to Use the Shade



employees to take a cool-down rest in the shade, for a period of no less than 5 minutes at a time.





"Rule of Thumb": the amount of shade present should be at least enough to accommodate 25 percent of the employees on the shift at any time.

If Temperature is Below 85 °F



When the temperature does not exceed 85 degrees F, provide shade or timely access to shade upon request.

Does the shade structure introduce a hazard?







In situations where the employer can demonstrate that it is not safe or feasible to provide shade, an employer can utilize established procedures for providing shade upon request or, for non-agricultural employers, alternative cooling measures that provide equivalent protection.



Written Procedures

- As long as they are effective, your Heat Illness Procedures can be integrated into the IIPP
- Maintain the procedures on site or close to the site, so that it can be made available to representatives of Cal/OSHA upon request.

Written Procedures

Detail how your company will:

- Provide access to water & shade
- Monitor the weather
- Institute high heat procedures and address lack of acclimatization
- Train all employees and supervisors
- Respond to heat illnesses without delay, provide first aid and emergency services.
- Provide clear and precise directions to the worksite.

Ensure Access to Water & Shade

- Designate a person to ensure that sufficient quantity of water is provided and shade is open and set in place
- Specify that the water and shade be located as close as possible to the workers
- Spell out how often refills of water containers will take place
- Determine how workers will be encouraged to frequently drink water and use shade





Monitor the Weather

http://www.nws.noaa.gov/

- Instruct supervisors to track the weather of the job site [by monitoring predicted temperature highs and periodically using a thermometer.]
- Determine how weather information will be used to modify work schedule, increase number of water and rest breaks or cease work early if necessary



High Heat Procedures

When the temperature equals or exceeds 95 degrees Fahrenheit or during a heat wave, make absolutely sure you:

- •Ensure effective communication (by voice, observation or electronic means)
- •Observe employees for alertness and signs and symptoms of heat illness
- Give more frequent reminders to drink plenty of water
- Closely supervise new employees, and all workers during a heat wave



Address Lack of Acclimatization

 As an employer, you are responsible for the working conditions of your employees, so you must act effectively when conditions result in sudden exposure to heat that your workers are not used to.

Thus, determine how you will:

- lessen the intensity of the employees' work during a two-week break-in period
- be extra-vigilant with new employees, and recognize immediately symptoms of possible heat illness

Address Lack of Acclimatization

 During a heat wave or sudden heat spike, determine how you will protect your workers from conditions resulting from sudden exposure to heat



Remember: training for employees and supervisors must include the importance of acclimatization, how it is developed, and how your procedures address it!

Employee & Supervisor Training

Ensure all employees and supervisors:

 Are trained before working outdoors in the heat



Know and follow your company procedures



Emergency Response Procedures

To ensure that emergency assistance is provided without delay, plan in advance how you will:

- –Immediately respond to symptoms of possible heat illness
- Contact emergency medical service providers
- Provide clear and precise directions to the worksite
- -Ensure that emergency procedures are invoked when appropriate





Employee Training

PRIOR TO WORKING OUTDOORS!

- The environmental and personal risk factors for heat illness
- Your company's heat illness prevention procedures
- Importance of frequent consumption of small quantities of water
- Importance of acclimatization
- Different types of heat illness, common signs and symptoms







Employee Training

- Importance of immediately reporting signs or symptoms of heat illness to supervisor
- Procedures for responding to possible heat illness
- Procedures to follow when contacting emergency medical services and if necessary transporting employees
- Procedures that ensure clear and precise directions to the work site will be provided to emergency medical services







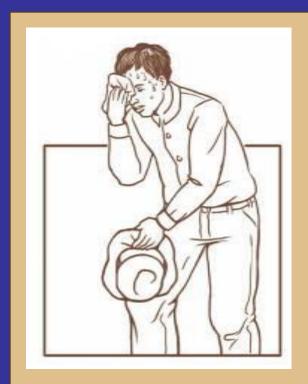
What You as a Supervisor Need to Do:

- Ensure employees are trained before working outdoors in the heat
- Ensure workers know and follow company procedures
- Closely supervise new employees for the first 14 days
- Monitor the weather at the site
- Remind workers to drink plenty of water

What You as a Supervisor Need to Do, cont.:

- Maintain effective communication with your crew at all times (by voice, observation or electronic means)
- Observe employees for alertness and signs or symptoms of heat illness
- Know what procedures to follow when a worker exhibits signs and symptoms of heat illness
- Respond to heat illness without delay: provide first aid and emergency services

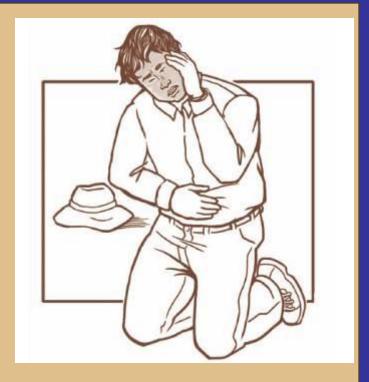
Heat Illness Signs & Symptoms



Heat Exhaustion

Heavy sweating, cramps, rapid pulse, headache, nausea, vomiting





Heat Stroke

Dry, red, hot skin, fainting, high body temperature, disoriented, confused

For more details see: www.dir.ca.gov/dosh/etools/08-006/Whatls.htm#typesof

In Summary:

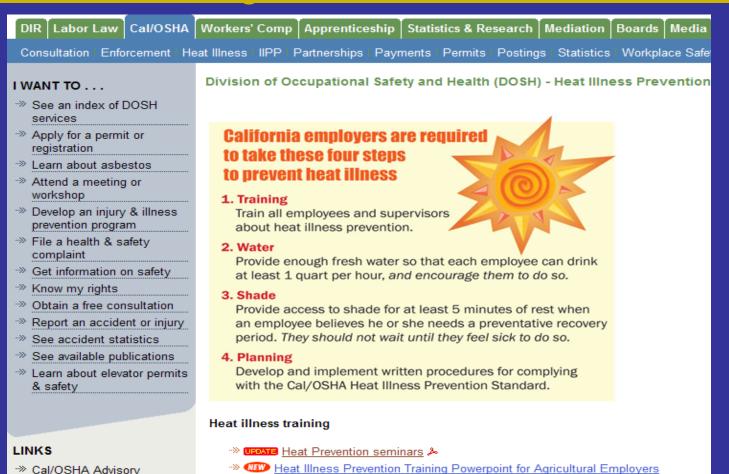
Heat Illness Prevention Elements Include:

- Access to water
- Access to shade
- Written procedures including emergency response
- Employee and Supervisory Training

For Additional Information

Visit the Cal/OSHA Heat Illness Webpage:

http://www.dir.ca.gov/DOSH/HeatIllnessInfo.html



(English), Spanish (10 MB) M

Committee

Cal/OSHA Consultation

How to reach us

Visit www.dir.ca.gov/dosh/consultation.html for a complete listing of our services.

Contact the nearest office:

Fresno 559-454-1295

Oakland 510-622-2891

Sacramento 916-263-0704

San Diego 619-767-2060

San Bernardino 909-383-4567

Santa Fe Springs 562-944-9366

San Fernando Valley 818-901-5754



State wide: 800-963-9424



Disclaimer

This is not meant to be either a substitute for or a legal interpretation of the occupational safety and health regulations. Users are cautioned to refer directly to Title 8 of the California code of Regulations and the Labor Code for detailed information regarding the regulation's scope, specifications, and exceptions and for other requirements that may be applicable to their operations.